



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



Publication number: **0 567 201 A3**

**EUROPEAN PATENT APPLICATION**

Application number: **93201611.6**

Int. Cl.<sup>8</sup>: **A61K 9/32, A61K 9/52, A61K 9/54**

Date of filing: **16.04.87**

Priority: **30.04.86 GB 8610572**

Date of publication of application:  
**27.10.93 Bulletin 93/43**

Publication number of the earlier application in  
accordance with Art.76 EPC: **0 496 437**

Designated Contracting States:  
**AT BE CH DE ES FR GB GR IT LI LU NL SE**

Date of deferred publication of the search report:  
**07.06.95 Bulletin 95/23**

Applicant: **AKTIEBOLAGET HÄSSLE**  
**S-431 83 Mölndal (SE)**

Inventor: **Lövgren, Kurt**  
**Violinvägen 2D**  
**S-435 44 Mölntycke (SE)**  
Inventor: **Pilbrant, Ake**  
**Snödroppevägen 6**  
**S-434 45 Kungsbacka (SE)**

Inventor: **Yasumura, Mitsuru**  
**37, Matsuzono-cho 5 chome**  
**Nishinomlya,**  
**Hyogo 662 (JP)**

Inventor: **Morigaki, Satoshi**  
**275-84, Nakanoma,**  
**Yachiyo-cho**  
**Taka-gun,**  
**Hyogo 677-01 (JP)**

Inventor: **Oda, Minoru**  
**304-24, Ohaza-Yuya**  
**Nakatsu-shi,**  
**Ohita 871 (JP)**

Inventor: **Ohishi, Naohiro**  
**1342-1, Ohaza-Tarumi,**  
**Shinyoshitomimura**  
**Chikugo-gun,**  
**Fukuoka 871-09 (JP)**

Representative: **Linderöth, Margareta et al**  
**AB Astra**  
**Patent Department**  
**S-151 85 Södertälje (SE)**

**Vehicles for oral administration of a specific pharmaceutically active acid labile substance.**

Improvements in the vehicles for oral administration of pharmaceutically active acid labile substances prone to discolouration, containing omeprazole where the administration vehicle comprises a core containing the omeprazole together with an alkaline reacting compound or an alkaline salt of omeprazole optionally mixed with an alkaline reacting compound, adopting the form either of a number of small beads optionally forming a tablet or a tablet as such and comprising a coating made out of one or more inert reacting subcoating layers comprising tablet excipients which are soluble or rapidly disintegrating in water, or polymeric, water soluble, filmforming compounds, optionally containing pH-buffering, alkaline compounds between the alkaline reacting core and an enteric outer coating layer.

**EP 0 567 201 A3**



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 93 20 1611

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.4)
D,X	EP-A-0 124 495 (AKTIEBOLAGET HÄSSLE) * page 1 - page 3, line 11 * * page 6, line 6 - line 35; example 12 * * page 13, line 25 - page 14, line 17; claims 1,8 *	1,2,6,8,9	A61K9/32 A61K9/52 A61K9/54
Y	---	4,5,7	
D,Y	EP-A-0 173 664 (AKTIEBOLAGET HÄSSLE) * page 2, line 1 - page 3, line 26 * * page 21, line 26 - page 22, line 8 * * page 27, line 1 - line 20 * * page 37, line 19 - page 38, line 12 *	4,5,7	
D,A	EP-A-0 080 602 (BYK GULDEN LOMBERG CHEMISCHE FABRIK GMBH) * page 2, line 1 - line 21 * * page 3, line 6 - line 13 * * page 17, line 10 - line 20 * * page 18, line 1 - line 20 * * page 20, line 14 - line 22 *	1-9	
A	GB-A-760 403 (ABBOT LABORATORIES) * page 1, line 11 - line 34 * * page 2, line 31 - line 70 * * page 6, line 3 - line 18 *	1-9	TECHNICAL FIELDS SEARCHED (Int.Cl.4) A61K
A	DE-A-32 33 764 (R.P.SCHERER) * page 6, line 7 - page 7, paragraph 3 * * page 8, last paragraph - page 9, line 1 *	1-9	
A	PATENT ABSTRACTS OF JAPAN vol. 8 no. 106 (C-223) [1543] ,18 May 1984 & JP-A-59 020219 (SHINETSU KAGAKU KOGYO K.K.) 1 February 1984, * abstract *	1-9	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11 April 1995	Examiner Muellners, W
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 93 20 1611

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.4)		
E	EP-A-0 446 961 (TAKEDA CHEMICAL INDUSTRIES LTD.) * page 2, - page 3, line 6 * * page 7, line 50 - page 8, line 11 * * page 8, line 25 - line 32; claims 12,17,20-27; examples 7,9 * ---	1-9			
E	EP-A-0 423 748 (TAKEDA CHEMICAL INDUSTRIES LTD.) * claims 11,16,19-31 * ---	1-9			
E	EP-A-0 237 200 (TAKEDA CHEMICAL INDUSTRIES LTD.) * claims 1,6,9,10 * -----	1-9			
			TECHNICAL FIELDS SEARCHED (Int.Cl.4)		
The present search report has been drawn up for all claims					
Place of search THE HAGUE		Date of completion of the search 11 April 1995	Examiner Muellners, W		
<table border="0"><tr><td><b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</td><td>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- A : member of the same patent family, corresponding document</td></tr></table>				<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- A : member of the same patent family, corresponding document
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- A : member of the same patent family, corresponding document				

EPO FORM 1503/92Z (P04C01)